



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1088174
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1088174

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	CIRCLE INDUSTRIES 3310 25-1H
Doc ID	1088174

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	24	18	47.44	60	1/2 Portland Cement	30	15% Fly Ash
Surface	12.25	9.625	36	812	Class C	500	2%CACL2 +.25#CEL LOFLAKE
Intermediate	8.75	7	23	4869	Class C	990	See attached
Liner	6.125	4.5	11.6	6889	N/A	0	

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 12-APR-12	F.R. # 1001901032	SERV. SUPV. JUSTIN D STAMPER
LEASE & WELL NAME CIRCLE INDUSTRIES 3310 #25-1H - API 150072383	LOCATION 25-33S-10W		COUNTY-PARISH-BLOCK Barber Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Nabors 102		TYPE OF JOB Surface

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
9-5/8" Top Cem Plug, Nitrile cvr, Phe	Shoe PROVIDED BY CUSTOMER						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES					
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY
WATER			8.34				20
CLASS C+2%CACL2+.25#CELLOFLAKE		500	14.8	1.35	6.34	02:45	120 75.34
Water			8.34				60
Available Mix Water <u>500</u> Bbl.		Available Displ. Fluid <u>500</u> Bbl.		TOTAL			<u>200</u> <u>75.34</u>

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25		813	8.921	9.625	36	CSG	812	812	J-55	812	774	

LAST CASING				PKR-CMT RET-BR PL-LINER				PERF. DEPTH		TOP CONN		WELL FLUID		
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
17.	18	84		60	60						9.625	8RD	WATER BASED MU	8.8

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	
60	BBLS	Water	8.34	120					3160	1500	RIG

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: ARRIVE ON LOCATION, RIG UP, WAIT ON RIG

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES 3600 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
21:00						ARRIVE ON LOCATION	
17:30						SAFETY MEETING	
18:17	3400				WATER	TEST LINES, START WATER AHEAD	
18:22	180		5	20	WATER	FINISH WATER, START SLURRY	
18:50	200		4	120	SLRRY	FINISH SLURRY, DROP PLUG AND START DISPLACMENT	
19:04	300		5	50	WATER	SLOW DOWN TO BUMP PLUG	
19:05	300		3	10	WATER	BUMP PLUG, PRESSURE TO 900 PSI	
19:06	0			-.25	WATER	BLEED OFF RECEIVED .25 BBLS BACK TO TRUCK	
						FLOATS HOLDING	
						THANK YOU FOR USING BHI	
						JUSTIN STAMPER AND CREW	

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	900	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	65	207	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 04-MAY-12	F.R. # 1001905796	SERV. SUPV. JONATHAN M SCHULZ III
LEASE & WELL NAME CIRCLE INDUSTRIES 3310 #25-1H - API 150072383	LOCATION 25-33S-10W		COUNTY-PARISH-BLOCK Barber Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Nabors 102		TYPE OF JOB Intermediate

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
7" Top Cem Plug, Nitrile cvr, Phen	Provided by Customer						
7" Bot Cem Plug, Nitrile cvr, Phen							

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
SealBond Spacer (w/45lb bag)			8.41				40	
C 15:85:8 + 10% NaCl+4ppsKolSeal+.25pps Celloflak		790	12.4	2.45	13.52	04:50	344.7	254.30
C50:50:2 +5% NaCl+4ppsKolSeal+.25pps Celloflake		200	14.2	1.32	5.66	03:45	47.03	26.96
fresh Water			8.34				189.8	

Available Mix Water <u>500</u> Bbl.	Available Displ. Fluid <u>230</u> Bbl.	TOTAL	621.53	281.25
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HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75		4869	6.366	7	23	CSG	4869	4769	L-80			

LAST CASING					PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID		
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
8.9	9.625	36	CSG	800	800				4600	4600	7	8RD	WATER BASED MU	9.3

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	
189.8	BBLS	fresh Water	8.34	1175						3000	Rig Tank

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: Arrive on location @ 920 am

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES 4000 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
09:20						Arrive on location	
14:00				40	SPACER	rig pump BRP with SealBond Spacer	
14:20	4138				WATER	test pumps & lines	
14:30	196		2.6		WATER	open well/start water spacer	
14:33	252		2.6	10	WATER	end water spacer/start lead slurry @ 12.4ppg	
15:07	47		2.4	137	LEAD	bbls pumped/ trouble getting product/ shutdown	
16:23	66		4		LEAD	resume pumping lead slurry	
16:38	222		4	191	LEAD	bbls pumped when lead slurry @ shoe	
17:09	981		3	338	LEAD	end lead slurry/ start tail slurry @ 14.2ppg	
17:21	531		3	48	TAIL	end tail slurry/ shutdown	
17:27	47		2.6		WATER	drop TRP/start displacement	
18:04	1318		4	143	WATER	bbls pumped when tail slurry @ shoe	
18:13	1659		2.8	179	WATER	slow rate to bump	
18:16	1517		2.8	190	WATER	shutdown/ no bump	
18:19	0			-.75		check float/ holding/ bbls return	
18:34	0					monitor returns for 15 minutes/ float holding	
						Thanks for using BHI Pressure Pumping	
						Jonathan Schulz & Crew	

CEMENT JOB REPORT



PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES 4000 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
Y <input checked="" type="checkbox"/> N		<input checked="" type="checkbox"/> Y N	0	627	0	Y <input checked="" type="checkbox"/> N	

Shell Exploration & Production Co. Inc.

Barber Co. (NAD-27)

Sec 25-T33S-R10W

Circle Industries 3310 #25-1H/ Job# 9281937/ Nabors 102

Wellbore #1

Design: Wellbore #1

Sperry Drilling Services

Combo Report With Grid North & True North

16 May, 2012

Well Coordinates: 171,966.01 N, 2,040,072.96 E (37° 08' 19.92" N, 098° 21' 45.13" W)

Ground Level: 1,378.00 ft

Local Coordinate Origin:	Centered on Well Circle Industries 3310 #25-1H/ Job# 9281937/ Nabors 102
Viewing Datum:	WELL @ 1403.76ft (Original Well Elev)
TVDs to System:	N
North Reference:	True
Unit System:	API-US-new

Version: 2003.21 Build: 43

HALLIBURTON

Design Report for Circle Industries 3310 #25-1H/ Job# 9281937/ Nabors 102 - Wellbore #1

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (ft)		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
						Northing	Easting	Northing	Easting			
0.00	0.00	359.92	0.00	1,403.76	0.00	0.00 N	0.00 E	171,966.01	2,040,072.96	0.00	0.00	
141.00	0.35	286.69	286.77	1,262.76	141.00	0.12 N	0.41 W	171,966.13	2,040,072.55	0.25	0.13	First MWD Survey
171.00	0.37	301.77	301.85	1,232.76	171.00	0.20 N	0.58 W	171,966.21	2,040,072.38	0.32	0.21	
201.00	0.59	333.21	333.29	1,202.76	201.00	0.39 N	0.73 W	171,966.40	2,040,072.23	1.12	0.40	
232.00	1.60	349.82	349.90	1,171.77	231.99	0.96 N	0.88 W	171,966.97	2,040,072.08	3.38	0.97	
262.00	2.59	2.98	3.06	1,141.79	261.97	2.05 N	0.92 W	171,968.06	2,040,072.04	3.65	2.06	
324.00	4.33	1.01	1.09	1,079.90	323.86	5.79 N	0.80 W	171,971.80	2,040,072.15	2.81	5.80	
416.00	5.44	0.44	0.52	988.24	415.52	13.62 N	0.69 W	171,979.63	2,040,072.25	1.21	13.63	
508.00	5.60	0.67	0.75	896.67	507.09	22.47 N	0.60 W	171,988.48	2,040,072.33	0.18	22.48	
600.00	5.45	0.07	0.15	805.09	598.67	31.33 N	0.53 W	171,997.34	2,040,072.39	0.17	31.33	
692.00	5.43	359.96	0.04	713.51	690.25	40.05 N	0.51 W	172,006.06	2,040,072.39	0.02	40.05	
743.00	5.50	358.48	358.56	662.74	741.02	44.91 N	0.57 W	172,010.92	2,040,072.32	0.31	44.91	
854.00	5.29	1.08	1.16	552.23	851.53	55.34 N	0.60 W	172,021.35	2,040,072.28	0.29	55.34	
916.00	5.24	1.77	1.85	490.49	913.27	61.03 N	0.45 W	172,027.04	2,040,072.42	0.13	61.03	
979.00	5.17	2.11	2.19	427.75	976.01	66.74 N	0.25 W	172,032.75	2,040,072.61	0.12	66.74	
1,041.00	3.86	0.39	0.47	365.95	1,037.81	71.62 N	0.13 W	172,037.63	2,040,072.73	2.12	71.61	
1,102.00	2.37	349.36	349.44	305.04	1,098.72	74.91 N	0.34 W	172,040.92	2,040,072.51	2.62	74.91	
1,165.00	2.17	327.37	327.45	242.09	1,161.67	77.20 N	1.22 W	172,043.20	2,040,071.63	1.41	77.21	
1,229.00	1.98	354.12	354.20	178.13	1,225.63	79.32 N	1.98 W	172,045.32	2,040,070.86	1.53	79.34	
1,293.00	0.70	20.37	20.45	114.15	1,289.61	80.78 N	1.96 W	172,046.79	2,040,070.88	2.17	80.80	
1,485.00	0.39	147.71	147.79	-77.85	1,481.61	81.33 N	1.20 W	172,047.34	2,040,071.64	0.51	81.34	
1,676.00	0.65	177.35	177.43	-268.84	1,672.60	79.70 N	0.81 W	172,045.71	2,040,072.04	0.19	79.70	
1,868.00	0.57	184.87	184.95	-460.83	1,864.59	77.66 N	0.84 W	172,043.67	2,040,072.01	0.06	77.66	
2,059.00	0.55	171.30	171.38	-651.82	2,055.58	75.81 N	0.78 W	172,041.81	2,040,072.06	0.07	75.81	
2,251.00	0.56	202.14	202.22	-843.81	2,247.57	74.03 N	1.00 W	172,040.03	2,040,071.85	0.15	74.03	
2,443.00	1.13	15.20	15.28	-1,035.80	2,439.56	74.98 N	0.86 W	172,040.99	2,040,071.99	0.88	74.99	
2,635.00	0.70	21.56	21.64	-1,227.78	2,631.54	77.90 N	0.07 E	172,043.91	2,040,072.92	0.23	77.89	
2,827.00	0.37	20.35	20.43	-1,419.77	2,823.53	79.57 N	0.72 E	172,045.58	2,040,073.57	0.17	79.55	
3,019.00	0.46	359.73	359.81	-1,611.77	3,015.53	80.92 N	0.94 E	172,046.93	2,040,073.78	0.09	80.90	
3,211.00	1.02	190.52	190.60	-1,803.76	3,207.52	80.01 N	0.62 E	172,046.02	2,040,073.46	0.77	80.00	
3,402.00	0.58	169.61	169.69	-1,994.74	3,398.50	77.39 N	0.48 E	172,043.40	2,040,073.33	0.27	77.38	
3,596.00	0.39	179.18	179.26	-2,188.73	3,592.49	75.77 N	0.66 E	172,041.78	2,040,073.51	0.11	75.75	
3,756.00	0.52	186.00	186.08	-2,348.73	3,752.49	74.50 N	0.59 E	172,040.51	2,040,073.44	0.09	74.48	
3,788.00	0.40	207.34	207.42	-2,380.73	3,784.49	74.26 N	0.53 E	172,040.27	2,040,073.38	0.65	74.24	
3,820.00	0.65	290.65	290.73	-2,412.73	3,816.49	74.22 N	0.31 E	172,040.23	2,040,073.16	2.26	74.21	
3,852.00	1.85	338.58	338.66	-2,444.72	3,848.48	74.77 N	0.05 W	172,040.78	2,040,072.80	4.67	74.76	
3,884.00	3.83	346.49	346.57	-2,476.68	3,880.44	76.29 N	0.49 W	172,042.30	2,040,072.36	6.29	76.29	

Design Report for Circle Industries 3310 #25-1H/ Job# 9281937/ Nabors 102 - Wellbore #1

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (ft)		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
						Northing	Easting	Northing	Easting			
3,916.00	6.24	351.98	352.06	-2,508.55	3,912.31	79.05 N	0.98 W	172,045.06	2,040,071.87	7.67	79.06	
3,948.00	8.46	352.18	352.26	-2,540.29	3,944.05	83.10 N	1.53 W	172,049.11	2,040,071.30	6.94	83.12	
3,980.00	10.24	356.57	356.65	-2,571.86	3,975.62	88.28 N	2.02 W	172,054.28	2,040,070.81	5.99	88.30	
4,012.00	11.77	1.20	1.28	-2,603.27	4,007.03	94.38 N	2.11 W	172,060.39	2,040,070.71	5.52	94.40	
4,044.00	13.89	3.09	3.17	-2,634.47	4,038.23	101.48 N	1.82 W	172,067.49	2,040,070.99	6.75	101.49	
4,076.00	16.41	3.13	3.21	-2,665.36	4,069.12	109.83 N	1.36 W	172,075.84	2,040,071.44	7.88	109.84	
4,108.00	19.60	3.30	3.38	-2,695.79	4,099.55	119.70 N	0.79 W	172,085.71	2,040,071.99	9.97	119.70	
4,140.00	22.51	3.10	3.18	-2,725.65	4,129.41	131.18 N	0.13 W	172,097.19	2,040,072.63	9.10	131.17	
4,172.00	25.92	2.33	2.41	-2,754.83	4,158.59	144.29 N	0.50 E	172,110.30	2,040,073.25	10.70	144.27	
4,203.00	29.63	1.20	1.28	-2,782.25	4,186.01	158.72 N	0.96 E	172,124.73	2,040,073.68	12.09	158.69	
4,235.00	33.16	0.79	0.87	-2,809.56	4,213.32	175.39 N	1.27 E	172,141.40	2,040,073.97	11.05	175.35	
4,267.00	35.93	0.75	0.83	-2,835.92	4,239.68	193.53 N	1.54 E	172,159.54	2,040,074.21	8.66	193.49	
4,299.00	38.07	0.85	0.93	-2,861.47	4,265.23	212.78 N	1.83 E	172,178.79	2,040,074.48	6.69	212.74	
4,331.00	39.99	1.01	1.09	-2,886.33	4,290.09	232.93 N	2.19 E	172,198.94	2,040,074.80	6.01	232.88	
4,363.00	41.96	0.51	0.59	-2,910.49	4,314.25	253.91 N	2.49 E	172,219.92	2,040,075.08	6.24	253.85	
4,395.00	43.17	359.46	359.54	-2,934.05	4,337.81	275.55 N	2.52 E	172,241.57	2,040,075.07	4.38	275.49	
4,427.00	44.85	357.89	357.97	-2,957.07	4,360.83	297.78 N	2.03 E	172,263.79	2,040,074.55	6.26	297.72	
4,459.00	47.64	357.47	357.55	-2,979.20	4,382.96	320.87 N	1.12 E	172,286.88	2,040,073.61	8.77	320.83	
4,555.00	57.06	358.84	358.92	-3,037.77	4,441.53	396.76 N	1.16 W	172,362.77	2,040,071.22	9.88	396.74	
4,651.00	57.24	359.42	359.50	-3,089.85	4,493.61	477.40 N	2.27 W	172,443.40	2,040,069.99	0.54	477.39	
4,683.00	57.04	359.35	359.43	-3,107.21	4,510.97	504.28 N	2.52 W	172,470.28	2,040,069.70	0.65	504.27	
4,715.00	57.40	359.53	359.61	-3,124.54	4,528.30	531.18 N	2.75 W	172,497.19	2,040,069.43	1.22	531.17	
4,747.00	59.65	359.83	359.91	-3,141.24	4,545.00	558.47 N	2.86 W	172,524.48	2,040,069.28	7.08	558.46	
4,898.00	57.98	0.12	0.20	-3,219.43	4,623.19	687.65 N	2.74 W	172,653.65	2,040,069.21	1.12	687.62	
4,929.00	58.06	0.12	0.20	-3,235.85	4,639.61	713.94 N	2.65 W	172,679.95	2,040,069.26	0.26	713.91	
4,960.00	59.09	359.14	359.22	-3,252.01	4,655.77	740.39 N	2.78 W	172,706.40	2,040,069.09	4.28	740.36	
4,990.00	62.28	359.60	359.68	-3,266.70	4,670.46	766.55 N	3.03 W	172,732.55	2,040,068.80	10.72	766.52	
5,021.00	67.31	0.34	0.42	-3,279.89	4,683.65	794.59 N	3.00 W	172,760.59	2,040,068.79	16.37	794.55	
5,052.00	72.22	359.18	359.26	-3,290.61	4,694.37	823.66 N	3.09 W	172,789.67	2,040,068.66	16.22	823.63	
5,083.00	77.02	358.74	358.82	-3,298.83	4,702.59	853.54 N	3.59 W	172,819.54	2,040,068.11	15.54	853.51	
5,113.00	81.69	358.97	359.05	-3,304.37	4,708.13	883.01 N	4.14 W	172,849.01	2,040,067.52	15.58	882.99	
5,175.00	90.58	359.87	359.95	-3,308.55	4,712.31	944.80 N	4.67 W	172,910.81	2,040,066.89	14.41	944.78	
5,206.00	92.10	0.12	0.20	-3,307.82	4,711.58	975.80 N	4.63 W	172,941.80	2,040,066.89	4.97	975.77	
5,298.00	93.18	359.62	359.70	-3,303.59	4,707.35	1,067.70 N	4.71 W	173,033.70	2,040,066.67	1.29	1,067.66	
5,390.00	94.62	358.64	358.72	-3,297.33	4,701.09	1,159.47 N	5.98 W	173,125.47	2,040,065.27	1.89	1,159.45	
5,482.00	92.83	359.53	359.61	-3,291.35	4,695.11	1,251.26 N	7.32 W	173,217.26	2,040,063.80	2.17	1,251.25	
5,574.00	94.04	358.94	359.02	-3,285.84	4,689.60	1,343.09 N	8.41 W	173,309.08	2,040,062.57	1.46	1,343.08	

Design Report for Circle Industries 3310 #25-1H/ Job# 9281937/ Nabors 102 - Wellbore #1

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft)	Local Coordinates Easting (ft)	Map Coordinates Northing (ft)	Map Coordinates Easting (ft)	Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
5,667.00	92.99	358.44	358.52	-3,280.14	4,683.90	1,435.89 N	10.41 W	173,401.88	2,040,060.44	1.25	1,435.90	
5,763.00	94.60	357.87	357.95	-3,273.78	4,677.54	1,531.63 N	13.36 W	173,497.62	2,040,057.35	1.78	1,531.67	
5,858.00	92.68	358.38	358.46	-3,267.75	4,671.51	1,626.39 N	16.32 W	173,592.37	2,040,054.24	2.09	1,626.46	
5,933.00	93.64	358.04	358.12	-3,263.62	4,667.38	1,701.24 N	18.56 W	173,667.22	2,040,051.89	1.36	1,701.33	
6,051.00	93.30	358.49	358.57	-3,256.48	4,660.24	1,818.97 N	21.96 W	173,784.95	2,040,048.32	0.48	1,819.10	
6,146.00	92.84	359.48	359.56	-3,251.39	4,655.15	1,913.82 N	23.51 W	173,879.79	2,040,046.63	1.15	1,913.97	
6,242.00	93.89	358.68	358.76	-3,245.75	4,649.51	2,009.65 N	24.91 W	173,975.61	2,040,045.08	1.37	2,009.80	
6,338.00	92.78	359.93	0.01	-3,240.17	4,643.93	2,105.47 N	25.94 W	174,071.44	2,040,043.91	1.74	2,105.63	
6,434.00	94.78	359.43	359.51	-3,233.84	4,637.60	2,201.26 N	26.34 W	174,167.22	2,040,043.37	2.15	2,201.41	
6,529.00	93.58	0.30	0.38	-3,226.92	4,630.68	2,296.00 N	26.43 W	174,261.97	2,040,043.14	1.56	2,296.15	
6,625.00	93.58	0.78	0.86	-3,220.92	4,624.68	2,391.81 N	25.40 W	174,357.78	2,040,044.04	0.50	2,391.93	
6,721.00	92.65	359.67	359.75	-3,215.70	4,619.46	2,487.66 N	24.89 W	174,453.63	2,040,044.41	1.51	2,487.77	
6,816.00	90.58	358.93	359.01	-3,213.03	4,616.79	2,582.62 N	25.91 W	174,548.58	2,040,043.24	2.31	2,582.73	Last MWD Survey
6,947.00	90.58	358.93	359.01	-3,211.70	4,615.46	2,713.59 N	28.18 W	174,679.55	2,040,040.78	0.00	2,713.72	Projected to TD @6,947' MD

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
141.00	141.00	0.12	-0.41	First MWD Survey
6,816.00	4,616.79	2,582.62	-25.91	Last MWD Survey
6,947.00	4,615.46	2,713.59	-28.18	Projected to TD @6,947' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (ft)	+E/-W (ft)	Start TVD (ft)
User	No Target (Freehand)	359.22	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
141.00	6,947.00	MWD ST1	MWD+SC



Design Report for Circle Industries 3310 #25-1H/ Job# 9281937/ Nabors 102 - Wellbore #1

Casing Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
4,864.00	4,605.26	7"	7	7-1/2

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	TVDSS (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	5,210.00	3,806.24	Arbuckle			
	5,173.00	3,769.24	McLish SandStone			
	5,100.00	3,696.24	Wilcox Sandstone			
	4,972.00	3,568.24	Viola			
	4,930.00	3,526.24	Woodford			
	4,881.00	3,477.24	Kinderhookian Shale			
	4,870.00	3,466.24	Compton Lime			
	4,850.00	3,446.24	Limey Shale			
	4,720.00	3,316.24	Limestone & Dolomite			
3,327.50	3,324.00	1,920.24	Techumseh Shale			
3,403.50	3,400.00	1,996.24	Kansas City Group			
3,611.51	3,608.00	2,204.24	Large Corsening Upward Sequence			
4,144.98	4,134.00	2,730.24	Lola			
4,365.36	4,316.00	2,912.24	Hushpuckney Shale			
4,440.07	4,370.00	2,966.24	Marmatom Group			
4,701.48	4,521.00	3,117.24	Cherokee Group			
4,891.98	4,620.00	3,216.24	MISS Unconformity			
4,908.96	4,629.00	3,225.24	Cherty Limestone			
5,011.81	4,680.00	3,276.24	Lime with Cherty Beds			

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	()	()	()	()	()	()	()		
- Shape	()	()	()	()	()	()	()		

Design Report for Circle Industries 3310 #25-1H/ Job# 9281937/ Nabors 102 - Wellbore #1

Directional Difficulty Index

Average Dogleg over Survey:	2.06 °/100ft	Maximum Dogleg over Survey:	16.37 °/100ft at 5,021.00 ft
Net Tortosity applicable to Plans:	-0.01 °/100ft	Directional Difficulty Index:	5.763

Audit Info

North Reference Sheet for Sec 25-T33S-R10W - Circle Industries 3310 #25-1H/ Job# 9281937/ Nabors 102 - Wellbore #1

All data is in Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to WELL @ 1403.76ft (Original Well Elev). Northing and Easting are relative to Circle Industries 3310 #25-1H/ Job# 9281937/ Nabors 102

Coordinate System is US State Plane 1927 (Exact solution), Kansas South 1502 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is 98° 30' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:37° 16' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 1.00002758

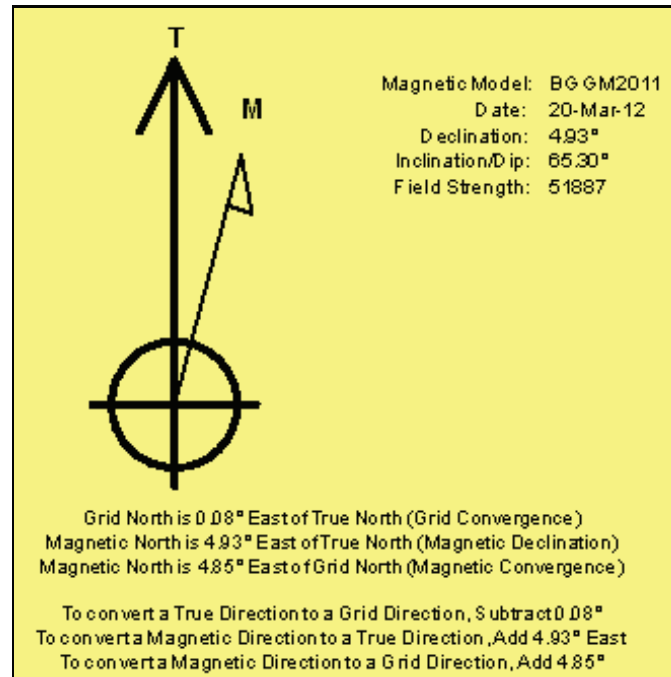
Grid Coordinates of Well: 171,966.01 ft N, 2,040,072.96 ft E

Geographical Coordinates of Well: 37° 08' 19.92" N, 098° 21' 45.13" W

Grid Convergence at Surface is: 0.08°

Based upon Minimum Curvature type calculations, at a Measured Depth of 6,947.00ft the Bottom Hole Displacement is 2,713.74ft in the Direction of 359.41° (True).

Magnetic Convergence at surface is: -4.85° (20 March 2012, , BGGM2011)



T33S, R10W, 6th P.M.

SGOMI

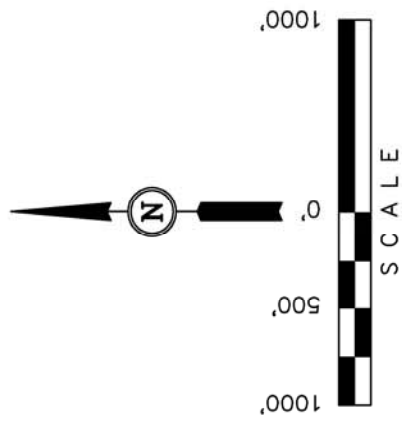
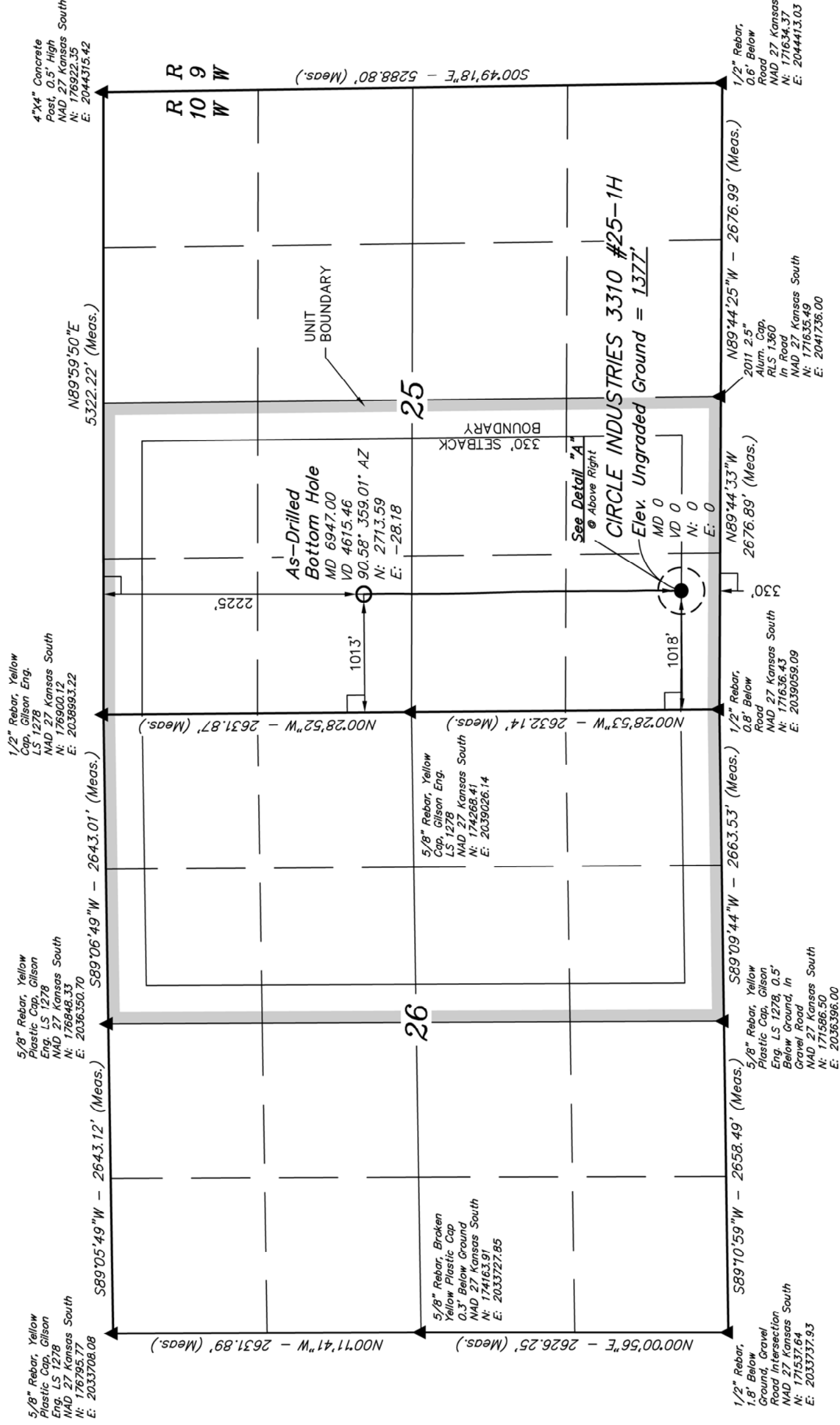
Well location, CIRCLE INDUSTRIES 3310 #25-1H, located as shown in the SW 1/4 SW 1/4 of Section 25, T33S, R10W, 6th P.M., Barber County, Kansas.

BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE NORTHEAST CORNER OF SECTION 22, T33S, R7W, 6th P.M. TAKEN FROM THE ANTHONY, QUADRANGLE, KANSAS, HARPER COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 1348 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE
 JUSTIN
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. NYS#
 STATE OF KANSAS
 2018-12

THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Justin

UNTAH ENGINEERING & LAND SURVEYING	
85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017	
SCALE 1" = 1000'	DATE SURVEYED: 05-16-12
PARTY L.S. K.H. C.A.G.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE SGOMI

NAD 83 (#25-1H AS-DRILLED BOTTOM HOLE)	NAD 83 (#25-1H SURFACE LOCATION)
LATITUDE = 37°08'46.83" (37.146342)	LATITUDE = 37°08'20.00" (37.138889)
LONGITUDE = 98°21'46.83" (98.363008)	LONGITUDE = 98°21'46.39" (98.362886)
NAD 27 (#25-1H AS-DRILLED BOTTOM HOLE)	NAD 27 (#25-1H SURFACE LOCATION)
LATITUDE = 37°08'46.74" (37.146317)	LATITUDE = 37°08'19.92" (37.138867)
LONGITUDE = 98°21'45.57" (98.362658)	LONGITUDE = 98°21'45.13" (98.362536)
STATE PLANE NAD 27 (KANSAS SOUTH)	STATE PLANE NAD 27 (KANSAS SOUTH)
N: 174679.41 E: 2040033.49	N: 171966.01 E: 2040072.96

- LEGEND:**
- = 90° SYMBOL
 - = PROPOSED WELL HEAD.
 - ▲ = SECTION CORNERS LOCATED.

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 24, 2012

Damonica Pierson
Shell Gulf of Mexico Inc.
150 N DAIRY-ASHFORD (77079)
PO BOX 576 (77001-0576)
HOUSTON, TX 77001-0576

Re: ACO1
API 15-007-23831-01-00
CIRCLE INDUSTRIES 3310 25-1H
SW/4 Sec.25-33S-10W
Barber County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Damonica Pierson